

FIRE DETECTION



TITANUS REX®

More flexible, more responsive, simply smarter.

Next-generation fire detection.

TITANUS REX®



Next-generation aspirating smoke detector

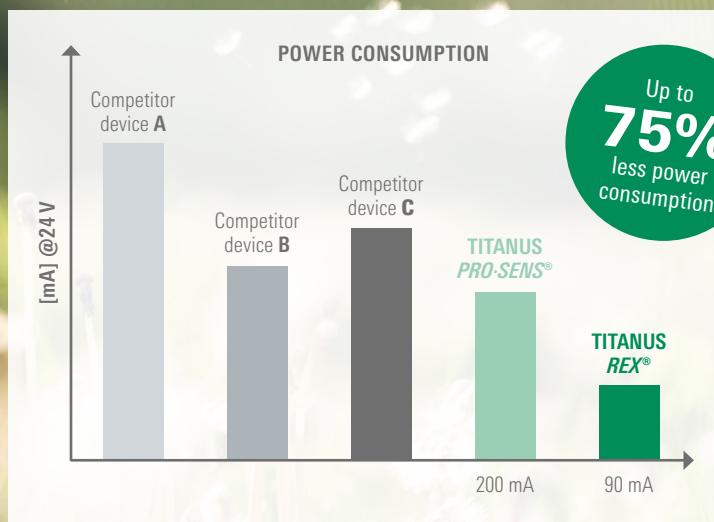
With the new **TITANUS REX®**, WAGNER offers an innovative aspirating smoke detector (ASD) that stands out for its maximum level of safety. The system sets new standards for convenience and efficient operation, particularly thanks to the software supplied for project planning, commissioning, and service.

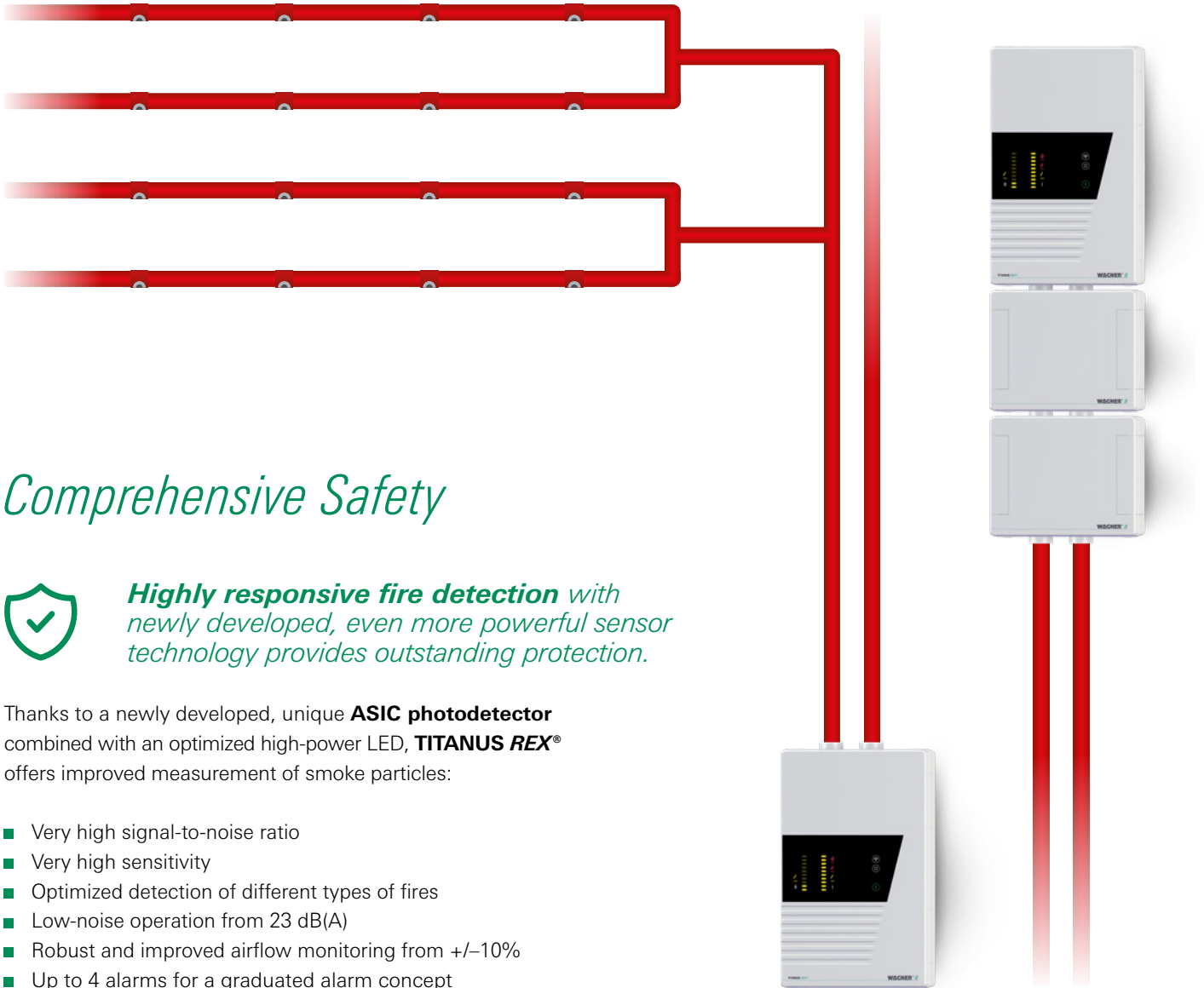
Very Low Operating Costs, Very High Environmental Awareness



The outstanding energy efficiency of the innovative **TITANUS REX®** reduces operating costs and actively supports the achievement of sustainability goals.

TITANUS REX® significantly outperforms the aspirating smoke detectors currently available on the market in terms of energy efficiency. Its innovative technology noticeably reduces operating costs and allows for a compact battery capacity for emergency power supply, which also reduces installation costs. In the long term, users benefit from less battery waste: very low costs and very high environmental protection.





Comprehensive Safety



Highly responsive fire detection with newly developed, even more powerful sensor technology provides outstanding protection.

Thanks to a newly developed, unique **ASIC photodetector** combined with an optimized high-power LED, **TITANUS REX®** offers improved measurement of smoke particles:

- Very high signal-to-noise ratio
- Very high sensitivity
- Optimized detection of different types of fires
- Low-noise operation from 23 dB(A)
- Robust and improved airflow monitoring from +/-10%
- Up to 4 alarms for a graduated alarm concept

Reliable Fire Detection Without Risk

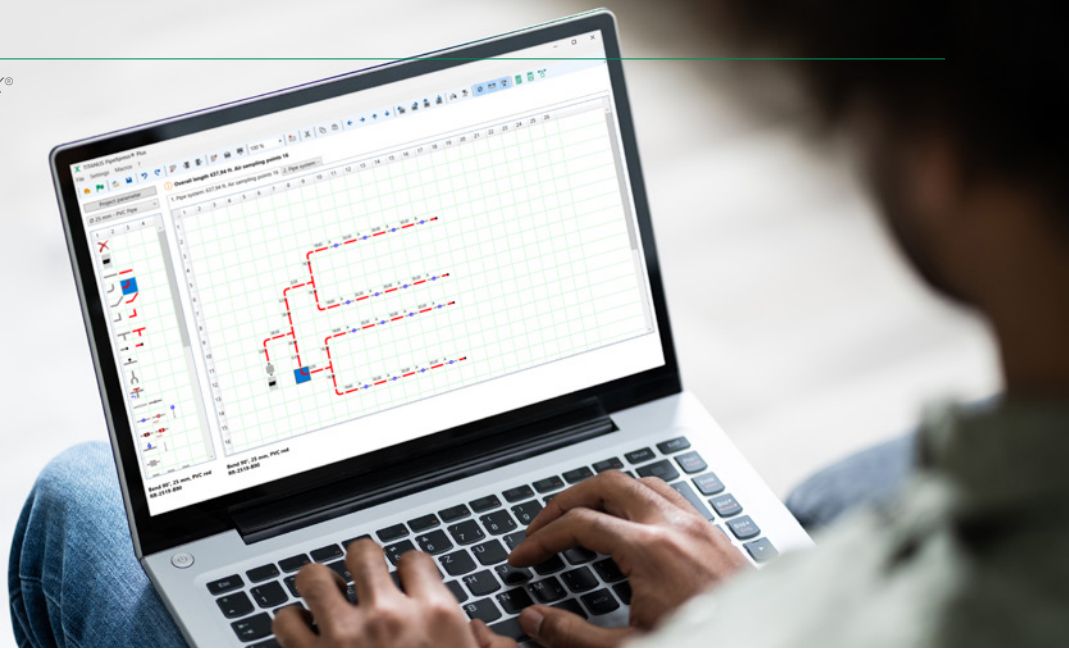


The advanced **LOGIC-SENS® PLUS** fire pattern recognition offers improved **immunity to nuisance alarms**.



The innovative aspirating smoke detector incorporates comprehensive algorithms based on 30 years of experience in fire detection. As a result, **TITANUS REX®** offers further optimized detection of nuisance alarms.

The **LOGIC-SENS® PLUS** feature combines reduced evaluation times with an increased sampling rate and advanced prediction algorithms that precisely calculate the signal curve over time. The result: very high immunity to nuisance alarms and faster, more reliable fire detection.



Digital Tools: Optimized Work Easy Project Planning With a Very High Level of Security



Innovative, networked digital tools ensure **greater safety** and **less effort** during project planning and commissioning.

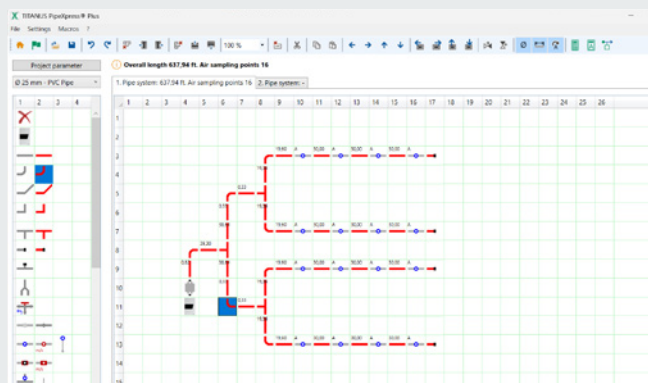
Project planning TITANUS PipeXpress® PLUS



TITANUS PipeXpress® PLUS is the software you need to easily plan the pipe network for a **TITANUS REX®** aspirating smoke detector. It determines the dimensions and designs in accordance with standards and calculates and optimizes the settings of the aspirating smoke detector. **TITANUS PipeXpress® PLUS** is therefore a tailor-made tool for planners, enabling a fast design process with very high quality and reliability.

- **Freely configurable and even asymmetrical pipe networks** open up a wide range of project planning options.
- **Very high level of certainty during project planning** thanks to testing of component compatibility with each other and with application and standard requirements.
- **Assistance-guided pipe network planning** enables **efficient, cost-effective quotation preparation**: thanks to sensible default values, calculations can be generated in less than a minute.

Networked:
The interplay of
digital tools



Parameters
of the detector



Project planning **TITANUS PipeXpress® PLUS**

Service Made Easy Convenience and Efficiency in Operation



The innovative operating concept ensures **greater user-friendliness** and **reduces the time** required for planning, commissioning, service, and maintenance.

Commissioning and service TITANUS® ServiceXpress



TITANUS® ServiceXpress is the tool for commissioning the **TITANUS REX®** aspirating smoke detector, adjusting settings, and reading operating data.

The software enables the installer to quickly commission the detector with the optimal parameters and to easily check and optimize the installation during maintenance and service calls.

■ Simple and convenient

During commissioning, the entire parameter set for a detector is loaded at the touch of a button.

■ Reliable adjustment

In conjunction with **TITANUS PipeXpress® PLUS**, settings are defined, thereby minimizing manual errors.

■ Economical

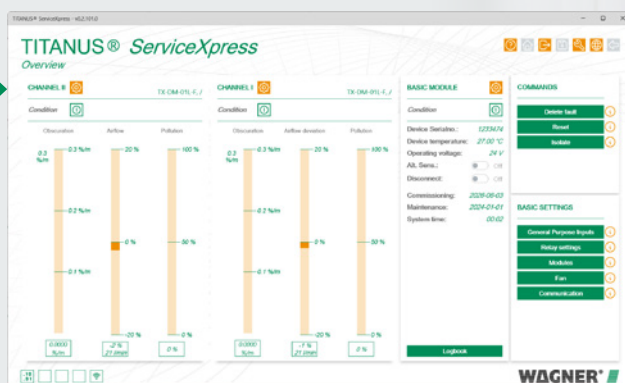
The fast connection to the **TITANUS REX®** via WiFi or USB, as well as other convenient features, keep maintenance work short and therefore cost-effective.



INSTALLATION AS SIMPLE AS POSSIBLE: THE NEW AIR FILTER CONCEPT

A new air filter concept saves time during installation and maintenance:

- Plug-and-play: just plug it in, no drilling required
- Easy to use thanks to a more compact and elegant overall design
- Filter mat replacement without screws



Commissioning and service **TITANUS® ServiceXpress**



TITANUS REX®

for many applications

TITANUS REX® impresses with its innovative features and universal applicability. Its various variants offer tailor-made solutions for different requirements and applications.



IT areas & cleanrooms

The **high sensitivity** of the **TITANUS REX®** is particularly useful in clean areas such as data centers or in areas with high air exchange rates, where increased sensitivity is required due to the dilution of smoke particle density.

The **freely adjustable, graduated alarm system** allows countermeasures to be taken at an early stage, such as the automatic transfer of data or automatic shutdown to safely defuse an electrical fault (elimination of the support energy as a cause of fire).



High-bay warehouses and compact storage systems

Thanks to its **high sensitivity**, **TITANUS REX®** can cover a large area of coverage. If, for example, a system has to be designed to meet special requirements such as ceiling heights of 12 meters or more or large airflows in accordance with VDE 0833, Class A, only a few detectors are needed. This **reduces the overall costs** while maintaining the same level of safety.



Deep-freeze areas

Fire detection in deep-freeze areas poses a challenge for a variety of reasons. **TITANUS REX®** is designed for use in deep-freeze warehouses and can be operated at **temperatures as low as -25.6 °F (-32 °C)**. It can be installed directly in the cooling areas; external piping is not necessary.

This prevents thermal bridges and condensation forming on the detector. As the detector can be used directly in the warehouse, the pipe networks are kept to a minimum, which reduces planning and installation costs and enables even earlier fire detection.



Dusty areas, e.g., recycling plants

TITANUS REX® can be adjusted to specific applications thanks to its customizable, continuously variable sensitivity. Additional safety is provided by **drift compensation** for adjusting the base level and the intelligent **LOGIC-SENS® PLUS** fire pattern recognition.

Predictive maintenance is made possible by **airflow sensors** that detect deposits and can initiate the necessary cleaning using an air purge function. The integrated maintenance notification ensures early notification in the event of deposits, for example. Service interventions can be planned sensibly and efficiently.



Application	TITANUS REX® 30	TITANUS REX® 50	TITANUS REX® 70
Deep-freeze areas		• • •	• • •
High-bay warehouses	• •	• • •	• • •
Compact storage systems	• • •	• • •	• • •
IT areas & data centers	• • •	• • •	• • •
Cleanrooms	• •	• •	• • •
Elevators	• • •	•	
High levels of dust/dirt e.g., recycling plants	• • •	• • •	• •
Museums & archives	• • •	• • •	• • •

Suitability level: • • •

	TITANUS REX® 30	TITANUS REX® 50	TITANUS REX® 70
Alarm levels (freely programmable)	2	3	4
Max. no. of detector modules (channels)	2	2	2
Pipe connections	2 / 4 with adapter	2 / 4 with adapter	2 / 4 with adapter
Temperature range	–4 °F ... 140 °F (–20 °C ... 60 °C)	–25.6 °F ... 140 °F (–32 °C ... 60 °C)	–25.6 °F ... 140 °F (–32 °C ... 60 °C)
Max. area of coverage, per channel	25,800 ft² (2 x 12,900 ft²) (2,400 m² (2 x 1,200 m²))	53,800 ft² (2 x 26,900 ft²) (5,000 m² (2 x 2,500 m²))	64,500 ft² (2 x 32,250 ft²) (6,000 m² (2 x 3,000 m²))
Max. no. of sampling points, per channel	24 (2 x 12)	108 (2 x 54)	164 (2 x 82)
Max. pipe length	780 ft (2 x 390 ft), (4 x 195 ft) (240 m (2 x 120 m), (4 x 60 m))	1,640 ft (2 x 820 ft), (4 x 410 ft) (500 m (2 x 250 m), (4 x 125 m))	1,970 ft (2 x 985 ft), (4 x 492.5 ft) (600 m (2 x 300 m), (4 x 150 m))
Smoke level display (bar graph)	–	–	1 per channel
WiFi	–	optional	–
Sensitivity range	0.0091 ... 6.575% obs/ft (0.03 ... 20% obs/m)	0.0005 ... 6.575% obs/ft (0.0015 ... 20% obs/m)	0.0003 ... 6.575% obs/ft (0.001 ... 20% obs/m)
Sensitivity range main alarm	0.091 ... 6.575% obs/ft (0.3 ... 20% obs/m)	0.005 ... 6.575% obs/ft (0.015 ... 20% obs/m)	0.003 ... 6.575% obs/ft (0.01 ... 20% obs/m)
Current consumption at rest (24 V DC)	1 channel: from 90 mA 2 channels: from 115 mA		
FACP connection, standard (max.)	4 potential-free contacts, programmable, expandable to up to 20		
Internal filter	2 per channel (15 ppi)		
Sound pressure level at a distance of 3.28 ft (1 m)	from 23 dB(A)		
IP protection class	IP 54		
Interfaces	Ethernet (optional)*, RS-485 (optional)*, USB-C		
Event log	approx. 20,000 events + cybersecurity login history		

* in preparation

Fire protection as holistic solution. Trendsetting. Worldwide.



EUROPE

Austria	Leobendorf
Benelux	Utrecht
Germany	Berlin · Cologne · Frankfurt/Main Hamburg · Hanover · Leipzig Mülheim/Ruhr · Munich · Nuremberg · Stuttgart
France	Paris
Italy	Milan
Norway	Verdal
Poland	Warsaw
Switzerland	Härkingen
United Kingdom	Birmingham

AMERICA

USA	Chicago
Canada	Toronto

ASIA

India	Mumbai
Southeast Asia	Singapore
United Arab Emirates	Dubai

AUSTRALIA

Australia	Melbourne
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www.wagnergroup.com



BETTER SOLUTIONS IN FIRE PROTECTION

WAGNER®